

I claim:

1. A headphone amplifier comprising:

a housing having a first side;

an audio signal input jack, an audio signal output jack, an on/off switch and a

5 volume control positioned on said first side of the housing;

a circuit board positioned inside of the housing;

a battery compartment positioned inside of the housing and separated from said  
circuit board by a barrier;

a first channel audio amplification circuit positioned on a first side of the circuit  
board and adapted to amplify a first channel audio input signal;

a second channel audio amplification circuit positioned on a second side of the  
circuit board adapted to amplify a second channel audio input signal;

the first channel circuit adapted to receive the second channel audio input signal and  
to amplify the second channel input signal to a predetermined degree of amplification less  
15 than the amplification of the first channel input signal;

the second channel circuit adapted to receive the first channel audio input signal and  
to amplify the first channel input signal to a predetermined degree of amplification less than  
the amplification of the first channel input signal.

2. The headphone amplifier of claim 1 further including:

a power supply circuit coupled with said first channel audio amplification circuit;

said power supply circuit being mounted on said circuit board.

3. An amplifier circuit comprising:

a printed circuit board having a first surface and an opposing second surface;  
operationally connected circuit elements mounted on said first surface and said  
second surface of said circuit board.

4. A power supply circuit comprising:

a printed circuit board having a first surface and an opposing second surface;  
operationally connected circuit elements mounted on said first surface and said  
second surface of said circuit board.

5. An amplifier circuit comprising:

a printed circuit board having a first surface and an opposing second surface;  
operationally connected amplifier circuit elements mounted on said first surface and  
said second surface of said circuit board;

a power supply circuit;  
said power supply circuit elements mounted on said first surface and said second  
surface of said circuit board;  
said power supply circuit being operationally coupled to said amplifier circuit.